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Mary Beth Savel State Bar No. 014642
Attorneys for Red Rock Utilities, LLC

AZ CORP COMMISSION
DOCUMENT CONTROL

Arizona Corporation Commission
DOCKETED

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BEFORE THE ARIZONA CORPORATION COMMISSION

COMMISSIONERS

JEFF HATCH-MILLER, Chairman
MARC SPITZER
MIKE GLEASON
KRISTIN K. MAYES
BARRY WONG

IN THE MATTER OF THE APPLICATION
OF RED ROCK UTILITIES, LLC FOR A
CERTIFICATE OF CONVENIENCE AND
NECESSITY TO PROVIDE WATER AND
WASTE WATER

) Docket No. WS-04245A-04-0184

) Decision No. 67409

) **NOTICE OF FILING ARIZONA
DEPARTMENT OF
ENVIRONMENTAL QUALITY
AQUIFER PROTECTION
PERMIT**

In satisfaction of Arizona Corporation Commission Decision No. 67409,
Opinion and Order, p. 13, lines 15-20, ordering Red Rock Utilities, LLC to file the
“ADEQ Aquifer Protection Permit within 24 months [of] the effective date of this
Decision,” Applicant hereby files a copy of the Arizona Department of Environmental
Quality (“ADEQ”) Aquifer Protection Permit for the Red Rock water reclamation facility
(the “WRF”), File No. 105621, LTF NO. 36087, dated August 23, 2006 (the “APP”). This
submittal includes a cover authorization letter from ADEQ, an ADEQ Fact Sheet for the
Red Rock WRF and the actual APP.

1 DATED this 6th day of September, 2006.

2 LEWIS AND ROCA LLP

3
4 By 

Mary Beth Savel

5 One South Church Avenue, Suite 700

6 Tucson, Arizona 85701-1611

Attorneys for Red Rock Utilities, LLC

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8 ORIGINAL AND 13 COPIES filed
this 6th day of September, 2006, with:

9 Arizona Corporation Commission
10 Utilities Division – Docket Control
1200 W. Washington Street
11 Phoenix, Arizona 85007

12 COPY mailed this 6th day of September, 2006 to:

13 Mr. Brian K. Bozzo
14 Compliance Manager
15 Arizona Corporation Commission
1200 W. Washington Street
Utilities Division
Phoenix, AZ 85008

16 Jane L. Rodda, Administrative Law Judge
17 Hearing Division
18 Arizona Corporation Commission
1200 W. Washington Street
Phoenix, Arizona 85007

19 David Ronald, Esq.
20 Legal Division
21 Arizona Corporation Commission
1200 W. Washington Street
Phoenix, Arizona 85007

22 Ernest Johnson
23 Director, Utilities Division
24 Arizona Corporation Commission
1200 W. Washington Street
Phoenix, Arizona 85007

25
26 



Janet Napolitano
Governor

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

1110 West Washington Street • Phoenix, Arizona 85007
(602) 771-2300 • www.azdeq.gov



Stephen A. Owens
Director

August 23, 2006

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AUG 28 2006

Robert Iannarino,
2200 E River Road, Suite 115
Tucson, AZ 85718

**Re: Red Rock WRF
Signed Aquifer Protection Permit (APP), File No. 105621, LTF No. 36087**

Dear Mr. Iannarino,

Enclosed is a signed copy of an Individual APP with Fact Sheet for the above referenced facility. The permit conditions shall apply from August 22, 2006 which is the date of the Water Quality Division Director's signature, and shall be valid for the life of the facility. Thank you for your cooperation in protecting the water quality of the State of Arizona.

If you have any questions about this permit or need further assistance, please contact me at (800) 234-5677 ext. 4391 or at (602) 771-4391.

Sincerely,

Sujana Attaluri
Sujana Attaluri, Project Manager
APP & Reuse Unit
Groundwater Section, Water Quality Division

Enclosures (2)

cc: Asif Majeed, Manager, APP & Reuse Unit
Marcy Mullins, Reuse Coordinator, APP & Reuse Unit
Robert Casey, Manager, Enforcement Unit, Water Quality Compliance Section
Matthew Hodge, Manager, Data Unit, Water Quality Compliance Section
Lynne Dekarske, Administrative Assistant III, Groundwater Section
Bill Hare, Inspector, Water Quality Compliance Section
Debra Daniel, Unit Manager, Surface Water Permits Unit
Duong Do, PACE

WRR06: 0536

Northern Regional Office
1801 W. Route 66 • Suite 117 • Flagstaff, AZ 86001
(928) 779-0313

Southern Regional Office
400 West Congress Street • Suite 433 • Tucson, AZ 85701
(520) 628-6733



Fact Sheet

Aquifer Protection Permit 105621
Place ID #34697, LTF # 36087
Red Rock Water Reclamation Facility

The Arizona Department of Environmental Quality (ADEQ) proposes to issue an aquifer protection permit for the subject facility that covers the life of the facility, including operational, closure, and post closure periods unless suspended or revoked pursuant to Arizona Administrative Code (A.A.C.) R18-9-A213. This document gives pertinent information concerning the issuance of the permit. The requirements contained in this permit will allow the permittee to comply with the two key requirements of the Aquifer Protection Program: 1) meet Aquifer Water Quality Standards at the Point of Compliance; and 2) demonstrate Best Available Demonstrated Control Technology (BADCT). BADCT's purpose is to employ engineering controls, processes, operating methods or other alternatives, including site-specific characteristics (i.e., the local subsurface geology), to reduce discharge of pollutants to the greatest degree achievable before they reach the aquifer or to prevent pollutants from reaching the aquifer.

I. FACILITY INFORMATION

Name and Location

Permittee's Name:	Red Rock Utilities, LLC
Mailing Address:	2200 E River Road, Suite 115 Tucson, AZ 85718
Facility Name and Location:	Red Rock Water Reclamation Facility Southwest of I-10 off Sasco Road in Red Rock Approximately 30 miles northwest of Tucson, AZ

Regulatory Status

This is a new facility and an APP application was received on April 13, 2005.

Facility Description

The permittee is authorized to operate a 0.3 million gallons per day (MGD) water reclamation facility (WRF). The WRF will be constructed in phases, yielding a total build-out design of 1.5 MGD. This permit is for phase 1 only (0.3 MGD). The WRF will treat domestic wastewater using sequencing batch reactors (SBR), screening, tertiary filtration, disinfection using an ultraviolet system, activated sludge system, nitrification/denitrification, clarification, aerated sludge storage and solids dewatering. Effluent is disposed by reuse and/or to a dry wash. Effluent discharged for reuse may also be chlorinated to maintain residual chlorine necessary to prevent bio-clogging of the distribution system. Excess effluent may be discharged to the

unnamed wash adjacent to the WRF under a valid AZPDES permit, No. AZ0025143. All the sludge including screenings, grit, and scum will be hauled off-site for disposal in accordance with state and federal regulations.

Discharges to the wash are expected to be periodic small-volume and/or of short duration, not to exceed a monthly average flow of 250,000 gallons per day (gpd), and occurs primarily during the winter months. As the facility expands to subsequent phases, effluent may also be recharged and the volume of effluent discharged to the wash may be increased. The depth to groundwater is approximately 235 feet below the ground surface (bgs) and the direction of groundwater flow is towards the northwest. The permit requires that the WRF be designed and constructed according to plans approved by the ADEQ APP & Reuse Unit.

All industrial hookups and other non-residential hookups to the WRF shall be authorized according to the applicable federal, state or local regulations.

In addition to the APP conditions pertaining to treatment and disposal of sewage sludge, the permittee must also comply with the requirements for sewage sludge disposal in 40 Code of Federal Regulations (CFR) Part 503 and 18 A.A.C. Ch. 9, Art. 10.

II. BEST AVAILABLE DEMONSTRATED CONTROL TECHNOLOGY (BADCT)

The permit requires the WRF to be designed to meet the treatment performance criteria for new facilities as specified in Arizona Administrative Code R18-9-B204.

The facility meets the requirements for the pretreatment by conducting monitoring as per: R18-9-B204 (B)(6)(b)(iii). All treatment units upstream of the filters will be covered with concrete or aluminum covers and air scrubbers will be provided for odor control. All pumps, blowers, and electrical equipment will be housed within buildings for noise control. The entire WRF site will be surrounded by a 6 feet high chain-link fence and/or a masonry wall, for aesthetic control. The WRF meets the required setback of 350 feet, for the full build-out WRF design capacity of 1.5 MGD.

III. COMPLIANCE WITH AQUIFER WATER QUALITY STANDARDS

Monitoring and Reporting Requirements

The facility is located over groundwater of the Avra Valley Sub-basin in Tucson Active Management Area. The depth to groundwater is approximately 235 feet bls and the direction of groundwater flow beneath the facility is generally to the northwest. The nearest points of use in the aquifer are several irrigation wells located approximately 1/4 mile south of the facility and upgradient. The facility's point of compliance was selected to be protective of all down gradient uses of the aquifer.

Effluent will meet applicable AWQS at the point of discharge. Alert Levels were set

at 80% of the Discharge Limits.

However the permittee will initiate monthly ambient groundwater monitoring within 90 days of exceeding the AZPDES flow limit. The permittee will perform monthly monitoring for 8 months for Fecal Coliform, Total Nitrogen, metals and VOC's as listed in Table IA.

Point(s) of Compliance (P.O.C)

The hazardous/non-hazardous POC has been designated at the following location:

P.O.C #	P.O.C. Location	Latitude	Longitude
1	Conceptual location west – northwest of the facility and immediately down gradient of the effluent discharge into the unnamed wash	32° 34' 22" N	111° 20' 42" W

Groundwater monitoring is not required at this time; therefore a monitor well will not be installed at the POC. However, groundwater monitoring will be required at the POC under a permit contingency plan as per Section 2.6.1.1., once discharges to the unnamed wash exceed the discharge flow limit In Table IA of the permit.

IV. STORM WATER AND SURFACE WATER CONSIDERATIONS

The facility is located adjacent to several small ephemeral washes trending NW and tributary to the ephemeral Santa Cruz River. There is no 100-yr flood plain associated with these washes; however the WRF will be designed to prevent run-on from disrupting facility operations. This design includes diverting the washes around the WRF.

Surface water quality monitoring is not required by this permit because the facility will monitor AZPDES discharges per permit # AZ0025143.

V. SPECIFIC CONTINGENCY ACTIONS AND COMPLIANCE SCHEDULE

Description	Deadline
The permittee shall submit a signed, dated, and sealed Engineer's Certificate of Completion in a format approved by the Department that confirms that the facility is constructed according to the Department – approved design report or plans and specifications, as applicable.	Prior to discharge and within 90 days of completion of construction

If the AZPDES discharge exceeds a monthly average of 250,000 gpd, the permit requires that a monitor well be installed at a POC #1, based on the following requirements.

1. Submit well design to ADEQ for approval within 30 days of the AZPDES flow limit exceeded (exceedance).
2. Install a monitoring well at the POC within 60 days of the exceedance and submit a well installation report within 30 days after monitor well completion.
3. Initiate monthly ambient groundwater monitoring within 60 days of well completion and perform monthly monitoring for 8 months for Fecal Coliform, Total Nitrogen, metals and VOC's. These parameters are listed in Table IA.
4. Submit an ambient groundwater monitoring report to the Groundwater Section pursuant to Section 2.7.4.6 within 60 days of the collection of ambient groundwater data. The permittee may propose ALs and AQLs based on statistical evaluation of all eight rounds of groundwater data collected.
5. Submit a request for permit amendment to add routine groundwater monitoring to the permit within 90 days of collection of ambient groundwater data.

VI. OTHER REQUIREMENTS FOR ISSUING THIS PERMIT

Technical Capability

The Red Rock Utilities, LLC has demonstrated the technical competence necessary to carry out the terms and conditions of the permit in accordance with A.R.S. § 49-243(N) and A.A.C. R18-9-A202 (B).

The WRF was designed as per the design report prepared and stamped, dated, and signed (sealed) by Duong Do, P.E. (Professional Engineer), Pacific Advanced Civil Engineering(PACE), Inc., dated April 13, 2005, and subsequent sealed submittals that served as additions to the design report. A certified operator will be retained for the operation and maintenance of the WRF

ADEQ requires that appropriate documents be sealed by an Arizona registered geologist or professional engineer. This requirement is a part of an on-going demonstration of technical capability. The permittee is expected to maintain technical capability throughout the life of the facility.

Financial Capability

The Red Rock Utilities, LLC has demonstrated the financial responsibility necessary to carry out the terms and conditions of the permit in accordance with A.R.S. § 49-243(N) and A.A.C. R18-9-A203. The permittee is expected to maintain financial capability throughout the life of the facility.

The permittee submitted a certificate of deposit for \$857, 872.00. The permittee provided a statement on its letterhead, according to rule R18-9-A203 (B)(1), to demonstrate financial capability.

Zoning Requirements

The Red Rock Water Reclamation Facility has been properly zoned for the permitted use and the permittee has complied with all Pinal County zoning ordinances in accordance with A.R.S. § 49-243(O) and A.A.C. R18-9-A201(A)(2)(c).

VII. ADMINISTRATIVE INFORMATION

Public Notice (A.A.C. R18-9-108(A))

The public notice is the vehicle for informing all interested parties and members of the general public of the contents of a draft permit or other significant action with respect to a permit or application. The basic intent of this requirement is to ensure that all interested parties have an opportunity to comment on significant actions of the permitting agency with respect to a permit application or permit. This permit will be public noticed in a local newspaper after a pre-notice review by the applicant and other affected agencies.

Public Comment Period (A.A.C. R18-9-109(A))

The aquifer protection program rules require that permits be public noticed in a newspaper of general circulation within the area affected by the facility or activity and provide a minimum of 30 calendar days for interested parties to respond in writing to ADEQ. After the closing of the public comment period, ADEQ is required to respond to all significant comments at the time a final permit decision is reached or at the same time a final permit is actually issued.

Public Hearing (A.A.C. R18-9-109(B))

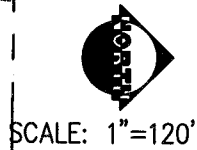
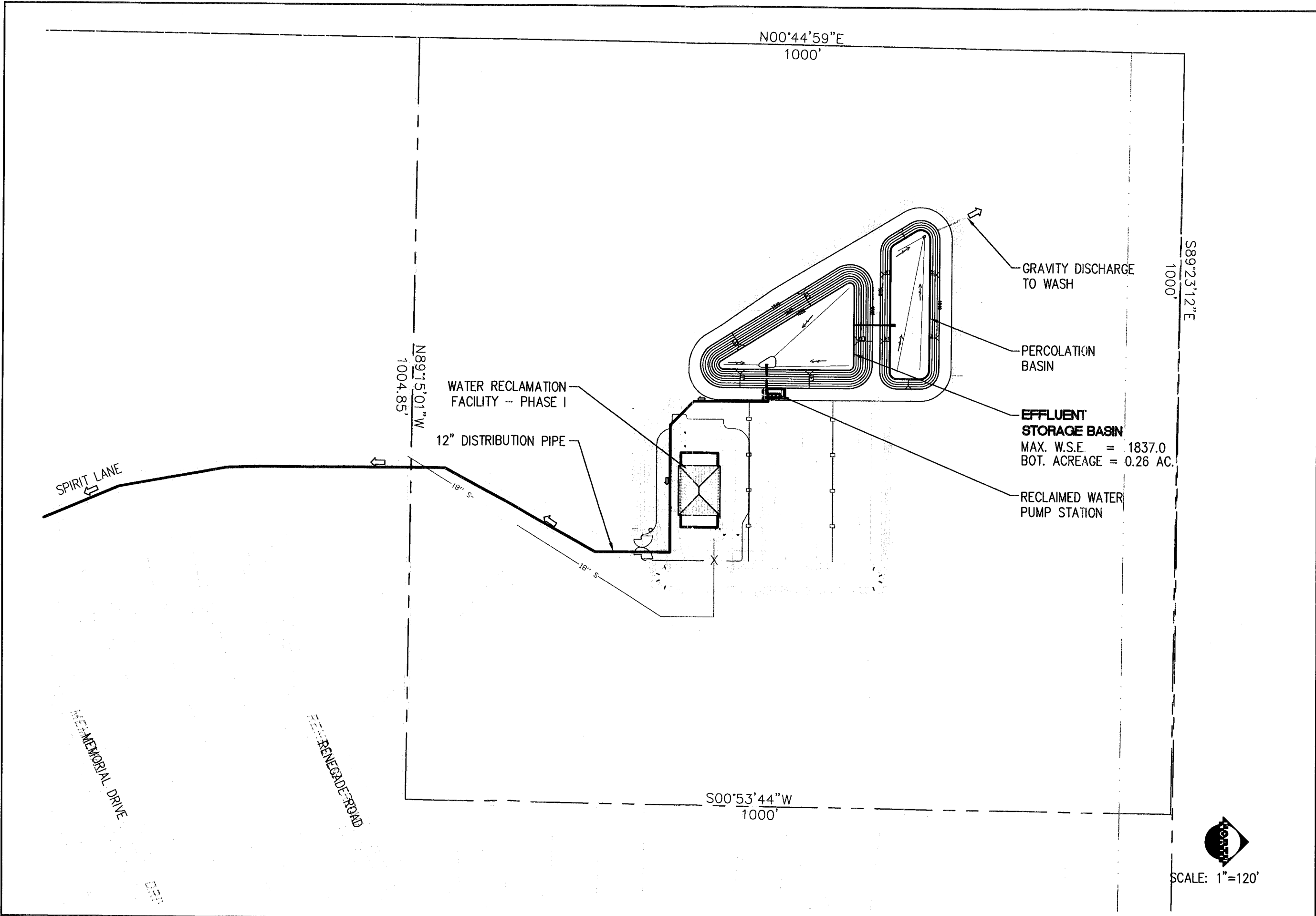
A public hearing may be requested in writing by any interested party. The request should state the nature of the issues proposed to be raised during the hearing. A public hearing will be held if the Director determines there is a significant amount of interest expressed during the 30-day public comment period, or if significant new issues arise that were not considered during the permitting process.

VIII. ADDITIONAL INFORMATION

Additional information relating to this proposed permit may be obtained from:

Arizona Department of Environmental Quality
Water Quality Division – Wastewater, Recharge & Reuse Unit
Attn: Sujana Attaluri
1110 W. Washington St., Mail Code 5415B-3
Phoenix, Arizona 85007
Phone: (602) 771- 4391

Xrefs: 8375-Stantec-base.dwg; 8375-10_TBLK.dwg; 8375-PROP-POND.dwg; 8375-PIPE-XSEC.dwg; 8375-MECH.dwg
Dimscale = 1; Ltscale = 0.5; Pstscale = 1; Acad Ver. = 16.2s (LMS Tech); Visretain = 1



SCALE: 1"=120'

PACIFIC ADVANCED CIVIL ENGINEERING
12200 N. 10TH AVE., SUITE 100
FONTANA, CA 92708
PH (714) 481-7300 FAX (714) 481-7299

FIGURE
1

SCALE	AS SHOWN
DESIGNED	DTD
DRAWN	NVK
CHECKED	DTD
DATE	01/27/06
JOB NO.	8375-E

JOB
TUCSON

**RED ROCK WRF
EFFLUENT DISPOSAL**

TITLE

**SITE
LAYOUT**

STATE OF ARIZONA
AQUIFER PROTECTION PERMIT NO. P-105621
PLACE ID 20776, LTF 36087

1.0 AUTHORIZATION

In compliance with the provisions of Arizona Revised Statutes (A.R.S.) Title 49, Chapter 2, Articles 1, 2 and 3, Arizona Administrative Code (A.A.C.) Title 18, Chapter 9, Articles 1 and 2, A.A.C. Title 18, Chapter 11, Article 4 and amendments thereto, and the conditions set forth in this permit, the Red Rock Utilities, LLC is hereby authorized to operate the Red Rock Water Reclamation Facility, located at Tucson, AZ, in Pinal County, over groundwater of the Avra Valley sub-basin in Tucson Active Management Area (AMA) in Township 10 S, Range 10 E, Section 8 of the Gila and Salt River Base Line and Meridian.

This permit becomes effective on the date of the Water Quality Division Director's signature and shall be valid for the life of the facility (operational, closure, and post-closure periods) unless suspended or revoked pursuant to A.A.C. R18-9-A213. The permittee shall construct, operate and maintain the permitted facilities:

1. Following all the conditions of this permit including the design and operational information documented or referenced below, and
2. Such that Aquifer Water Quality Standards (AWQS) are not violated at the applicable point(s) of compliance (POC) set forth below or if an AWQS for a pollutant has been exceeded in an aquifer at the time of permit issuance, that no additional degradation of the aquifer relative to that pollutant and as determined at the applicable POC occurs as a result of the discharge from the facility.

1.1 PERMITTEE INFORMATION

Facility Name:	Red Rock Water Reclamation Facility	
Permittee:	Mailing Address:	Facility's Street Address:
Red Rock Utilities, LLC	2200 E River Road, Suite 115 Tucson, Arizona 85718	Southwest of I-10 of Sasco Road in Red Rock approximately 30 miles northwest of Tucson, AZ

Facility Contact: Robert Iannarino


Emergency Telephone Number: (520) 577- 0200

Latitude: 32° 34' 21" N

Longitude: 111° 20 ' 19" W

Legal Description: Township 10 S, Range 10 E, Section 8 of the Gila and Salt River Base Line and Meridian.

1.2 AUTHORIZING SIGNATURE



Joan Card, Director

Water Quality Division

Arizona Department of Environmental Quality

Signed this 22nd day of August, 2006

2.0 SPECIFIC CONDITIONS [A.R.S. §§ 49-203(4), 49-241(A)]**2.1 Facility / Site Description [A.R.S. § 49-243(K)(8)]**

The permittee is authorized to operate a 0.3 million gallons per day (MGD) water reclamation facility (WRF). The WRF will be constructed in phases, yielding a total build-out design of 1.5 MGD. This permit is for phase 1 only (0.3 MGD). The WRF will treat domestic wastewater using sequencing batch reactors (SBR), screening, tertiary filtration, disinfection using an ultraviolet system, activated sludge system, nitrification / denitrification, clarification, aerated sludge storage, solids dewatering and an effluent pump station. The effluent shall be disposed by reuse and/or to a dry wash under a valid AZPDES permit. Effluent discharged for reuse may be chlorinated to maintain residual chlorine necessary to prevent bio-clogging of the distribution system.

Discharges to the wash will be periodic small-volume and/or of short duration, not to exceed a monthly average flow of 250,000 gallons per day (gpd), primarily during the winter months. As the facility expands to subsequent phases, effluent may also be recharged and the volume of effluent discharged to the wash may be increased. During the initial startup period, up to 10,000 gallons per day of effluent may be vaulted and hauled off-site to an approved facility as per Table IA-1.

All the sludge including screenings, grit, and scum shall be hauled off-site for disposal in accordance with State and Federal regulations.

The depth to groundwater is approximately 235 feet below the surface and the direction of groundwater flow is towards the northwest.

The site includes the following permitted discharging facilities:

Facility	Latitude	Longitude
WRF	32° 34' 21" N	111° 20' 19" W
AZPDES outfall to unnamed wash	32° 34' 21" N	111° 20' 41" W

Annual Registration Fee [A.R.S. § 49-242]

The Annual Registration Fee for this permit is established by A.R.S. § 49-242(E) and is payable to ADEQ each year. The design flow is 0.3 MGD.

Financial Capability [A.R.S. § 49-243(N) and A.A.C. R18-9-A203]

The permittee has demonstrated financial capability under A.R.S. § 49-243(N) and A.A.C. R18-9-A203. The permittee shall maintain financial capability throughout the life of the facility. The estimated dollar amount demonstrated for financial capability is \$857,872. The financial capability was demonstrated by Certificate of Deposit as per A.A.C. R18-9-A203 (C) (3).

2.2 Best Available Demonstrated Control Technology [A.R.S. § 49-243(B) and A.A.C. R18-9-A202 (A)(5)]

The Water Reclamation Facility shall be designed, constructed, operated and maintained to meet the treatment performance criteria for new facilities as specified in Arizona Administrative Code R18-9-B204.

The facility shall meet the requirements for the pretreatment by conducting monitoring as per:

R18-9-B204 (B)(6)(b)(iii).

All industrial hookups and other non-residential hookups to the treatment system shall be authorized according to the applicable federal, state or local regulations.

2.2.1 Engineering Design

The WRF shall be designed and constructed as per the design report prepared and stamped, dated, and signed (sealed) by Duong Do, P.E. (Professional Engineer), Pacific Advanced Civil Engineering, Inc., dated April 13, 2005.

2.2.2 Site-specific Characteristics

Not Applicable.

2.2.3 Pre-Operational Requirements

The permittee shall submit a signed, dated, and sealed Engineer's Certificate of Completion in a format approved by the Department per Compliance Schedule in Section 3.0.

2.2.4 Operational Requirements

1. The permittee shall maintain a copy of the up-to-date O & M manual at the WRF site at all times and shall be available upon request during inspections by ADEQ personnel.
2. The pollution control structures shall be inspected for the items listed in Section 4.0, Table III - FACILITY INSPECTION (OPERATIONAL MONITORING).
3. If any damage of the pollution control structures is identified during inspection, proper repair procedures shall be performed. All repair procedures and material(s) used shall be documented on the Self-Monitoring Report Form submitted quarterly to the ADEQ Water Quality Compliance.

2.2.5 Wastewater Treatment Plant Classification

[A.A.C. R18-9-703(C)(2)(a), A.A.C. R18-11-303 through 307]

The WRF will produce reclaimed water meeting Class A+ Reclaimed Water Quality Standards and can be used for any allowable use in that class under a valid reclaimed water permit (A.A.C. R18-9, Article 7).

2.3 Discharge Limitations [A.R.S. §§ 49-201(14), 49-243 and A.A.C. R18-9-A205 (B)]

1. The permittee is authorized to operate the WRF with a maximum average monthly flow of 0.3 MGD.
2. The permittee shall notify all users that the materials authorized to be disposed of through the WRF are typical household sewage and shall not include motor oil, gasoline, paints, varnishes, hazardous wastes, solvents, pesticides, fertilizers or other materials not generally associated with toilet flushing, food preparation, laundry facilities and personal hygiene.
3. The permittee shall operate and maintain all permitted facilities to prevent unauthorized discharges pursuant to A.R.S. § 49-201(12) resulting from failure or bypassing of BADCT pollutant control technologies including overtopping (e.g., exceeding the maximum storage capacity, defined as a fluid level exceeding the crest elevation of a permitted impoundment),

of basins, lagoons, impoundments or sludge drying beds, berm breaches, accidental spills, or other unauthorized discharges.

4. Specific discharge limitations are listed in Section 4.0, Table IA and IB.

2.4 Points of Compliance (P.O.C.) [A.R.S. § 49-244]

The Point of Compliance is established by the following designated location:

P.O.C #	P.O.C. Location	Latitude	Longitude
1	Conceptual location west – northwest of the facility and immediately down gradient of the effluent discharge into the unnamed wash	32°34'22" N	111°20'42" W

Groundwater monitoring is not required at this time. However, groundwater monitoring shall be required at the POC under a permit contingency plan, once discharges to the unnamed wash exceed the discharge limit in Table IA of the permit.

The Director may amend this permit to require installation of wells and initiation of groundwater monitoring at the POC or to designate additional points of compliance if information on groundwater gradients or groundwater usage indicates the need.

2.5 Monitoring Requirements [A.R.S. § 49-243(K)(1), A.A.C. R18-9-A206(A)]

All monitoring required in this permit shall continue for the duration of the permit, regardless of the status of the facility. All sampling, preservation and holding times shall be in accordance with currently accepted standards of professional practice. Trip blanks, equipment blanks and duplicate samples shall also be obtained, and chain of custody procedures shall be followed, in accordance with currently accepted standards of professional practice. The permittee shall consult the most recent version of the ADEQ Quality Assurance Project Plan (QAPP) and EPA 40 CFR PART 136 for guidance in this regard. Copies of laboratory analyses and chain of custody forms shall be maintained at the permitted facility. Upon request these documents shall be made immediately available for review by ADEQ personnel.

2.5.1 Discharge Monitoring

The permittee shall monitor the wastewater according to Section 4.0, Table IA and IB. A representative sample of the wastewater shall be collected at the end of UV disinfection.

2.5.1.1 Reclaimed Water Monitoring

The permittee shall monitor the parameters listed under Table 1B in addition to the routine discharge monitoring parameters listed in Table 1A.

2.5.2 Facility / Operational Monitoring

Operational monitoring inspections shall be conducted according to Section 4.0, Table III.

- a. If any damage of the pollution control structures is identified during inspection, proper repair procedures shall be performed. All repair procedures and materials used shall be documented on the Self-Monitoring Report Form (SMRF) submitted quarterly to the ADEQ Water Quality Compliance. If none of the conditions occur, the report shall say "no event" for a particular reporting period. If the facility is not

in operation, the permittee shall indicate that fact in the SMRF.

- b. The permittee shall submit data required in Section 4.0, Table III regardless of the operating status of the facility unless otherwise approved by the Department or allowed in this permit.

2.5.3 Groundwater Monitoring and Sampling Protocols

Routine groundwater monitoring is not required under the terms of this permit.

2.5.4 Surface Water Monitoring and Sampling Protocols

Routine surface water monitoring is not required under the terms of this permit.

2.5.5 Analytical Methodology

All samples collected for compliance monitoring shall be analyzed using Arizona state approved methods. If no state approved method exists, then any appropriate EPA approved method shall be used. Regardless of the method used, the detection limits must be sufficient to determine compliance with the regulatory limits of the parameters specified in this permit. Analyses shall be performed by a laboratory licensed by the Arizona Department of Health Services, Office of Laboratory Licensure and Certification. For results to be considered valid, all analytical work shall meet quality control standards specified in the approved methods. A list of Arizona State certified laboratories can be obtained at the address below:

Arizona Department of Health Services
Office of Laboratory Licensure and Certification
250 North 17th Ave.
Phoenix, AZ 85007
Phone: (602) 364-0720

2.5.6 Installation and Maintenance of Monitoring Equipment

Monitoring equipment required by this permit shall be installed and maintained so that representative samples required by the permit can be collected. If new groundwater wells are determined to be necessary, the construction details shall be submitted to the ADEQ Groundwater Section for approval prior to installation and the permit shall be amended to include any new points.

2.6 Contingency Plan Requirements

[A.R.S. § 49-243(K)(3), (K)(7) and A.A.C. R18-9-A204 and R18-9-A205]

2.6.1 General Contingency Plan Requirements

At least one copy of the approved contingency and emergency response plan(s) submitted in the application shall be maintained at the location where day-to-day decisions regarding the operation of the facility are made. The permittee shall be aware of and follow the contingency and emergency plans.

An alert level (AL) exceedance, violations of a DL, aquifer quality limit (AQL), or other permit condition shall be reported to ADEQ following the reporting requirements in Section 2.7.3.

Some contingency actions involve verification sampling. Verification sampling shall consist of the first follow-up sample collected from a location that previously indicated a violation or the exceedance of an AL. Collection and analysis of the verification sample shall use the same protocols and test methods to analyze for the pollutant or pollutants that exceeded an AL or violated an AQL. The permittee is subject to enforcement action for the failure to comply with any contingency actions in this permit. Where verification sampling is specified in this permit, it is the option of the permittee to perform such sampling. If verification sampling is not conducted within the timeframe allotted, ADEQ and the permittee shall presume the initial sampling result to be confirmed as if verification sampling has been conducted. The permittee is responsible for compliance with contingency plans relating to the exceedance of an AL or violation of a DL, AQL, or any other permit condition.

2.6.1.1 Specific Contingencies: AZPDES Flow Limit

In the event that flow limit for discharge to the AZPDES outfall of 250,000 gpd monthly average is exceeded, the permittee shall:

1. Submit well design to ADEQ for approval within 30 days of the AZPDES FLOW limit exceeded (exceedance).
2. Install a monitoring well at the POC within 60 days of the exceedance and submit a well installation report within 30 days after monitor well completion.
3. Initiate monthly ambient groundwater monitoring within 60 days of well completion and perform monthly monitoring for 8 months for Fecal Coliform, Total Nitrogen, metals and VOC's. These parameters are listed in Table IA.
4. Submit an ambient groundwater monitoring report to the Groundwater Section pursuant to Section 2.7.4.6 within 60 days of the collection of the last ambient groundwater sample. The permittee shall propose ALs and AQLs based on statistical evaluation of all eight rounds of groundwater data collected.
5. Submit a request for permit amendment to add routine groundwater monitoring to the permit within 90 days of collection of ambient groundwater data.

2.6.2 Exceeding of Alert Levels/Performance Levels

2.6.2.1 Exceeding of Performance Levels (PL) Set for Operational Conditions

1. If the operational PL set in Section 4.0, Table III has been exceeded the permittee shall:
 - a. Notify the ADEQ Water Quality Compliance Section within five (5) days of becoming aware of an exceedance of any permit condition in Table III.
 - b. Submit a written report within thirty (30) days after becoming aware of an exceedance of a permit condition. The report shall document all of the following:
 - (1) a description of the exceedance and its cause;

- (2) the period of the exceedance, including exact date(s) and time(s), if known, and the anticipated time period during which the exceedance is expected to continue;
 - (3) any action taken or planned to mitigate the effects of the exceedance or the spill, or to eliminate or prevent recurrence of the violation;
 - (4) any monitoring activity or other information which indicates that any pollutants would be reasonably expected to cause a violation of an Aquifer Water Quality Standard; and
 - (5) any malfunction or failure of pollution control devices or other equipment or process.
2. The facility is no longer on alert status once the operational indicator no longer indicates that a PL is being exceeded. The permittee shall, however, complete all tasks necessary to return the facility to its pre-alert operating condition.

2.6.2.2 Exceeding of Alert Levels Set for Discharge Monitoring

1. If an AL set in Section 4.0, TABLE IA has been exceeded, the permittee shall immediately investigate to determine the cause of the AL being exceeded. The investigation shall include the following:
 - a. Inspection, testing, and assessment of the current condition of all treatment or pollutant discharge control systems that may have contributed to the AL being exceeded.
 - b. Review of recent process logs, reports, and other operational control information to identify any unusual occurrences;
 - c. Pretreatment source control for industrial pollutants.
2. The permittee shall initiate actions identified in the approved contingency plan referenced in Section 5.0 and specific contingency measures identified in Section 2.6 to resolve any problems identified by the investigation which may have led to an AL being exceeded. To implement any other corrective action the permittee shall obtain prior approval from ADEQ according to Section 2.6.6.
3. Within thirty (30) days after confirmation of an AL being exceeded, the permittee shall submit the laboratory results to the ADEQ Water Quality Compliance Section, Enforcement Unit, along with a summary of the findings of the investigation, the cause of the AL being exceeded, and actions taken to resolve the problem.
4. Upon review of the submitted report, the Department may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions or other actions.

2.6.2.2.1 Exceeding Permit Flow Limit

1. If the AL for average monthly flow in Section 4.0, Table IA or IB is exceeded, the permittee shall submit an application for

an APP amendment to expand the WRF or submit a report detailing the reasons that the expansion is not necessary.

2. Acceptance of the report instead of an amendment application for expansion requires ADEQ approval.

2.6.2.3 Exceeding of Alert Levels in Groundwater Monitoring

2.6.2.3.1 Alert Levels for Indicator Parameters

Not required at time of permit issuance.

2.6.2.3.2 Alert Levels for Pollutants with Numeric Aquifer Water Quality Standards

Not required at time of permit issuance.

2.6.2.3.3 Alert Levels to Protect Downgradient Users from Pollutants without Numeric Aquifer Water Quality Standards

Not required at time of permit issuance.

2.6.3 Discharge Limitations (DL) Violations

1. If a DL set in Section 4.0, Table IA or IB has been violated, the permittee shall immediately investigate to determine the cause of the violation. The investigation shall include the following:
 - a. Inspection, testing, and assessment of the current condition of all treatment or pollutant discharge control systems that may have contributed to the violation;
 - b. Review of recent process logs, reports, and other operational control information to identify any unusual occurrences;
 - c. Sampling of individual waste streams composing the wastewater for the parameters in violation.

The permittee also shall submit a report according to Section 2.7.3, which includes a summary of the findings of the investigation, the cause of the violation, and actions taken to resolve the problem. The permittee shall consider and ADEQ may require corrective action that may include control of the source of discharge, cleanup of affected soil, surface water or groundwater, and mitigation of the impact of pollutants on existing uses of the aquifer. Corrective actions shall either be specifically identified in this permit, included in an ADEQ approved contingency plan, or separately approved according to Section 2.6.6.

2. Upon review of the submitted report, the Department may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions or other actions.

2.6.4 Aquifer Quality Limit (AQL) Violation

Not Applicable.

2.6.5 Emergency Response and Contingency Requirements for Spills and Unauthorized Discharges [A.R.S. § 49-201(12) and pursuant to A.R.S. § 49-241]**2.6.5.1 Duty to Respond**

The permittee shall act immediately to correct any condition resulting from a discharge A.R.S. § 49-201(12) if that condition could pose an imminent and substantial endangerment to public health or the environment.

2.6.5.2 Discharge of Hazardous Substances or Toxic Pollutants

In the event of any unauthorized discharge pursuant to A.R.S. § 49-201(12) of suspected hazardous substances (A.R.S. § 49-201(18)) or toxic pollutants (A.R.S. § 49-243(I)) on the facility site, the permittee shall promptly isolate the area and attempt to identify the discharged material. The permittee shall record information, including name, nature of exposure and follow-up medical treatment, if necessary, on persons who may have been exposed during the incident. The permittee shall notify the ADEQ Water Quality Field Services Unit at (602) 771-4841 within 24 hours upon discovering the discharge of hazardous material which: a) has the potential to cause an AWQS or AQL to be exceeded; or b) could pose an endangerment to public health or the environment.

2.6.5.3 Discharge of Non-hazardous Materials

In the event of any unauthorized discharge pursuant to A.R.S. § 49-201(12) of non-hazardous materials from the facility, the permittee shall promptly attempt to cease the discharge and isolate the discharged material. Discharged material shall be removed and the site cleaned up as soon as possible. The permittee shall notify the ADEQ Water Quality Field Services Unit at (602) 771-4841, within 24 hours upon discovering the discharge of non-hazardous material which: a) has the potential to cause an AQL to be exceeded; or b) could pose an endangerment to public health or the environment.

2.6.5.4 Reporting Requirements

The permittee shall submit a written report for any unauthorized discharges reported under Sections 2.6.5.2 and 2.6.5.3 to ADEQ Water Quality Field Services Unit, Mail Code: 5415B-1, 1110 West Washington Street, Phoenix, AZ within thirty days of the discharge or as required by subsequent ADEQ action. The report shall summarize the event, including any human exposure, and facility response activities and include all information specified in Section 2.7.3. If a notice is issued by ADEQ subsequent to the discharge notification, any additional information requested in the notice shall also be submitted within the time frame specified in that notice. Upon review of the submitted report, ADEQ may require additional monitoring or corrective actions.

2.6.6 Corrective Actions

Specific contingency measures identified in Part 2.6 have already been approved by ADEQ and do not require written approval to implement.

With the exception of emergency response actions taken under Section 2.6.5, the permittee shall obtain written approval from the Groundwater Section prior to implementing a corrective action to accomplish any of the following goals in response to exceeding an AL or violation of an AQL, DL, or other permit condition:

1. Control of the source of an unauthorized discharge;
2. Soil cleanup;
3. Cleanup of affected surface waters;
4. Cleanup of affected parts of the aquifer;
5. Mitigation to limit the impact of pollutants on existing uses of the aquifer.

Within 30 days of completion of any corrective action, the operator shall submit to the ADEQ Water Quality Compliance Section, a written report describing the causes, impacts, and actions taken to resolve the problem.

2.7 Reporting and Recordkeeping Requirements

[A.R.S. § 49-243(K)(2) and A.A.C. R18-9-A206(B) and R18-9-A207]

2.7.1 Self Monitoring Report Forms (SMRF)

1. The permittee shall complete the SMRFs provided by ADEQ, and submit them to the Water Quality Compliance Section, Data Unit.
2. The permittee shall complete the SMRF to the extent that the information reported may be entered on the form. If no information is required during a quarter, the permittee shall enter "not required" on the SMRF and submit the report to ADEQ. The permittee shall use the format devised by ADEQ.
3. The tables contained in Sections 4.0 list the parameters to be monitored and the frequency for reporting results for compliance monitoring. Analytical and Monitoring methods shall be recorded on the SMRFs. The permittee reserves the right to request a relaxation of the monitoring frequency for metals and volatile organic compounds if the data indicate that water quality standards are being achieved.
4. In addition to the SMRF, the information contained in A.A.C. R18-9-A206(B)(1) shall be included for exceeding an AL or violation of an AQL, DL, or any other permit condition being reported in the current reporting period.

2.7.2 Operation Inspection / Log Book Recordkeeping

A signed copy of this permit shall be maintained at all times at the location where day-to-day decisions regarding the operation of the facility are made. A log book (paper copies, forms or electronic data) of the inspections and measurements required by this permit shall be maintained at the location where day-to-day decisions are made regarding the operation of the facility. The log book shall be retained for ten years from the date of each inspection, and upon request, the permit and the log book shall be made immediately available for review by ADEQ personnel. The information in the log book shall include, but not be limited to, the following information as applicable:

1. Name of inspector;
2. Date and shift inspection was conducted;
3. Condition of applicable facility components;
4. Any damage or malfunction, and the date and time any repairs were performed;
5. Documentation of sampling date and time;
6. Any other information required by this permit to be entered in the log book, and
7. Monitoring records for each measurement shall comply with R18-9-A206(B)(2).

2.7.3 Permit Violation and Alert Level Status Reporting

1. The permittee shall notify the Water Quality Compliance Section, Enforcement Unit in writing within five days (except as provided in Section 2.6.5) of becoming aware of a violation of any permit condition, discharge limitation or of an Alert Level being exceeded.
2. The permittee shall submit a written report to the Water Quality Compliance Section, Enforcement Unit within 30 days of becoming aware of the violation of any permit condition or discharge limitation. The report shall document all of the following:
 - a. Identification and description of the permit condition for which there has been a violation and a description of its cause.
 - b. The period of violation including exact date(s) and time(s), if known, and the anticipated time period during which the violation is expected to continue.
 - c. Any corrective action taken or planned to mitigate the effects of the violation, or to eliminate or prevent a recurrence of the violation.
 - d. Any monitoring activity or other information which indicates that any pollutants would be reasonably expected to cause a violation of an Aquifer Water Quality Standard.
 - e. Proposed changes to the monitoring which include changes in constituents or increased frequency of monitoring.
 - f. Description of any malfunction or failure of pollution control devices or other equipment or processes.

2.7.4 Operational, Other or Miscellaneous Reporting

The permittee shall complete the Self-Monitoring Report Form provided by the Department to reflect facility inspection requirements designated in Section 4.0, Table III and submit to the ADEQ, Water Quality Compliance quarterly along with other reports required by this permit. Facility inspection reports shall be submitted no less frequently than quarterly, regardless of operational status.

The permittee shall submit the results of water quality testing for total nitrogen, fecal coliform, turbidity and flow volumes to any of the following in accordance with A.A.C. R18-9-703(C)(2)(c):

1. Any reclaimed water agent who has contracted for delivery of reclaimed water from the permittee;
2. Any end user who has not waived interest in receiving this information

2.7.5 Reporting Location

All SMRFs shall be submitted to:

Arizona Department of Environmental Quality
Water Quality Compliance Section, Data Unit
Mail Code: 5415B-1
1110 W. Washington Street
Phoenix, AZ 85007

Phone (602) 771-4681

All documents required by this permit to be submitted for Water Quality Compliance Section shall be directed to:

Water Quality Compliance Section, Enforcement Unit
Mail Code: 5415B-1
1110 W. Washington Street
Phoenix, AZ 85007
Phone (602) 771-4614

All documents required by this permit to be submitted to the Groundwater Section shall be directed to:

Arizona Department of Environmental Quality
Groundwater Section
Mail Code: 5415B-3
1110 W. Washington Street
Phoenix, AZ 85007
Phone (602) 771-4428

2.7.6 Reporting Deadline

The following table lists the quarterly report due dates:

Monitoring conducted during quarter:	Quarterly Report due by:
January-March	April 30
April-June	July 30
July-September	October 30
October-December	January 30

2.7.7 Changes to Facility Information in Section 1.0

The Groundwater Section and Water Quality Compliance Section shall be notified within 10 days of any change of facility information including Facility Name, Permittee Name, Mailing or Street Address, Facility Contact Person or Emergency Telephone Number.

2.8 Temporary Cessation [A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A209(A)]

The permittee shall give written notice to the Water Quality Compliance Section before ceasing operation of the facility for a period of 60 days or greater. The permittee shall take the following measures upon temporary cessation:

1. If applicable, direct the wastewater flows from the facility to another State approved wastewater treatment facility.
2. Correct the problem that caused the temporary cessation of the facility.
3. Notify ADEQ with a monthly facility Status Report describing the activities conducted on the WRF to correct the problem

At the time of notification the permittee shall submit for ADEQ approval a plan for maintenance of discharge control systems and for monitoring during the period of temporary cessation. Immediately following ADEQ's approval, the permittee shall implement the approved plan. If necessary, ADEQ shall amend permit conditions to incorporate conditions to address temporary cessation. During the period of temporary cessation, the permittee shall provide written notice to the Water Quality Compliance Section of the operational status of the facility every three years. If the permittee intends to permanently cease operation of any facility, the permittee shall submit closure notification, as set forth in Section 2.9 below.

2.9 Closure [A.R.S. §§ 49-243(K)(6), 49-252 and A.A.C. R18-9-A209(B)]

For a facility addressed under this permit, the permittee shall give written notice of closure to the Water Quality Compliance Section of the permittee's intent to cease operation without resuming activity for which the facility was designed or operated.

2.9.1 Closure Plan

Within 90 days following notification of closure, the permittee shall submit for approval to the Groundwater Section, a Closure Plan which meets the requirements of A.R.S. § 49-252 and A.A.C. R18-9-A209(B)(1)(a).

If the closure plan achieves clean closure immediately, ADEQ shall issue a letter of approval to the permittee. If the closure plan contains a schedule for bringing the facility to a clean closure configuration at a future date, ADEQ may incorporate any part of the schedule as an amendment to this permit.

2.9.2 Closure Completion

Upon completion of closure activities, the permittee shall give written notice to the Groundwater Section indicating that the approved Closure Plan has been implemented fully and providing supporting documentation to demonstrate that clean closure has been achieved (soil sample results, verification sampling results, groundwater data, as applicable). If clean closure has been achieved, ADEQ shall issue a letter of approval to the permittee at that time. If any of the following conditions apply, the permittee shall follow the terms of Post Closure stated in this permit:

1. Clean closure cannot be achieved at the time of closure notification or within one year thereafter under a diligent schedule of closure actions;
2. Further action is necessary to keep the facility in compliance with aquifer water quality standards at the applicable point of compliance;
3. Continued action is required to verify that the closure design has eliminated discharge to the extent intended;
4. Remedial or mitigative measures are necessary to achieve compliance with Title 49, Ch. 2;
5. Further action is necessary to meet property use restrictions.

2.10 Post-Closure [A.R.S. §§ 49-243(K)(6), 49-252 and A.A.C. R18-9 A209(C)]

Post-closure requirements shall be established based on a review of facility closure actions and will be subject to review and approval by the Groundwater Section.

In the event clean closure cannot be achieved pursuant to A.R.S. § 49-252, the permittee shall submit for approval to the Groundwater Section a Post-Closure Plan that addresses post-

closure maintenance and monitoring actions at the facility. The Post-Closure Plan shall meet all requirements of A.R.S. §§ 49- 201(29) and 49-252 and A.A.C. R18-9-A209(C). Upon approval of the Post-Closure Plan, this permit shall be amended or a new permit shall be issued to incorporate all post-closure controls and monitoring activities of the Post-Closure Plan.

2.10.1 Post-Closure Plan

A specific post closure plan may be required upon the review of the closure plan.

2.10.2 Post-Closure Completion

Not required at the time of permit issuance.

3.0 COMPLIANCE SCHEDULE [A.R.S. § 49-243(K)(5) and A.A.C. R18-9-A208]

For each compliance schedule item listed below, the permittee shall submit the required information, including a cover letter that lists the compliance schedule items, to the Groundwater Section. A copy of the cover letter must also be submitted to the Water Quality Compliance Section, Enforcement Unit

Description	Deadline
The permittee shall submit a signed, dated, and sealed Engineer's Certificate of Completion in a format approved by the Department that confirms that the facility is constructed according to the Department – approved design report or plans and specifications, as applicable.	Prior to discharge and within 90 days of completion of construction
Notify cessation of Vault and Haul	Within 15 days of the date of the cessation of the vault and haul activity or when flow reaches 10,000 gpd, whichever comes earlier.

4.0 TABLES OF MONITORING REQUIREMENTS

**TABLE IA-I
INITIAL STARTUP PLAN¹**

Sampling Point Number	Sampling Point Identification		Latitude		Longitude
1	In the filtration yard, at the end of UV disinfection		32° 34' 20" N		111° 20' 19" W
Parameter	AL ²	DL ³	Units	Sampling Frequency	Reporting Frequency
Total Flow: Daily ⁴	Not Established ⁵	0.01	MGD	Daily ⁶	Quarterly

¹ Monitoring under this table shall continue until permittee ceases to vault and haul and initiates routine monitoring under Table IA.

² AL = Alert Level.

³ DL = Discharge Limit.

⁴ Total flow is measured in million gallons per day (MGD)

⁵ Not Established = Monitoring required but no limits have been specified at time of permit issuance.

⁶ Flow shall be measured using a continuous recording flow meter that totals the flows daily.

4.0 TABLES OF MONITORING REQUIREMENTS

**TABLE IA
ROUTINE DISCHARGE MONITORING⁷**

Sampling Point Number	Sampling Point Identification		Latitude		Longitude
1	In the filtration yard, at the end of UV disinfection		32° 34' 20" N		111° 20' 19" W
Parameter	AL ⁸	DL ⁹	Units	Sampling Frequency	Reporting Frequency
Total Flow: Daily ¹⁰	Not Established ¹¹	Not Established	MGD	Daily ¹²	Quarterly
Total Flow: Average Monthly	0.285	0.3	MGD ¹³	Monthly ¹⁴	Quarterly
Flow: AZPDES Daily	Not Established	Not Established	MGD	Daily	Quarterly
Flow: AZPDES Average Monthly	Not Established	0.25 ¹⁵	MGD	Monthly	Quarterly
Fecal Coliform Single sample maximum	No Limit	23	CFU or MPN	Daily ¹⁶	Quarterly
Fecal Coliform Four out of Seven daily samples in a Week ¹⁷	No Limit	Non-Detect ¹⁸	CFU or MPN ¹⁹	Weekly	Quarterly
Total Nitrogen ²⁰ : 5-sampling rolling geometric mean.	8.0	10.0	mg/l	Monthly ²¹	Quarterly

⁷ The permittee shall initiate monitoring under this table (Table IA) upon ceasing thye vault & haul operation during the initial startup period (See Table IA-1).

⁸ AL = Alert Level.

⁹ DL = Discharge Limit.

¹⁰ Total flow is measured in million gallons per day (MGD)

¹¹ Not Established = Monitoring required but no limits have been specified at time of permit issuance.

¹² Flow shall be measured using a continuous recording flow meter that totals the flows daily.

¹³ MGD = Million Gallons per Day.

¹⁴ Monthly = Calculated value = Average of daily flows in a month.

¹⁵ Implement contingency plan in section 2.6.1.1 and contingency groundwater monitoring in Table II.

¹⁶ Flow shall be measured using a continuous recording flow meter.

¹⁷ "Week" means a seven-day period starting on Sunday and ending on the following Saturday.

¹⁸ If at least four (4) of the daily samples are non-detect, report "yes" in the appropriate space on the SMRF (indicating that the standard has been met). If at least four (4) of the daily samples have detections of fecal coliform, report "no" in the appropriate space on the SMRF (indicating that the standard has not been met).

¹⁹ CFU = Colony Forming Units / 100 ml sample. MPN = Most Probable Number / 100 ml sample

²⁰ Total Nitrogen = Nitrate as N + Nitrite as N + Total Kjeldahl Nitrogen.

²¹ A 5-Month Geometric Mean of the results of the 5 most recent samples.

4.0 TABLES OF MONITORING REQUIREMENTS

TABLE IA
ROUTINE DISCHARGE MONITORING (Continued)

Parameter	AL	DL	Units	Sampling Frequency	Reporting Frequency
Metals (Total)²²:					
Antimony	0.0048	0.006	mg/l	Quarterly	Quarterly
Arsenic	0.04	0.05	mg/l	Quarterly	Quarterly
Barium	1.60	2.00	mg/l	Quarterly	Quarterly
Beryllium	0.0032	0.004	mg/l	Quarterly	Quarterly
Cadmium	0.004	0.005	mg/l	Quarterly	Quarterly
Chromium	0.08	0.1	mg/l	Quarterly	Quarterly
Cyanide (As free cyanide)	0.16	0.2	mg/l	Quarterly	Quarterly
Fluoride	3.2	4.0	mg/l	Quarterly	Quarterly
Lead	0.04	0.05	mg/l	Quarterly	Quarterly
Mercury	0.0016	0.002	mg/l	Quarterly	Quarterly
Nickel	0.08	0.1	mg/l	Quarterly	Quarterly
Selenium	0.04	0.05	mg/l	Quarterly	Quarterly
Thallium	0.0016	0.002	mg/l	Quarterly	Quarterly

²² If the Discharge Limit for listed pollutants has not been exceeded in all of eight (8) consecutive monitoring events, the owner or operator may apply to the ADEQ Groundwater Section to request a reduction in sampling and reporting frequencies for these pollutants.

4.0 TABLES OF MONITORING REQUIREMENTS

TABLE 1A
ROUTINE DISCHARGE MONITORING (Continued)

Parameter	AL	DL	Units	Sampling Frequency	Reporting Frequency
Volatile Organic Compounds (VOCs)²³:					
Benzene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Carbon tetrachloride	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
o-Dichlorobenzene	0.48	0.6	mg/l	Semi-Annually	Semi-Annually
para-Dichlorobenzene	0.06	0.075	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloroethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
1,1-Dichloroethylene	0.0056	0.007	mg/l	Semi-Annually	Semi-Annually
cis-1,2-Dichloroethylene	0.05	0.07	mg/l	Semi-Annually	Semi-Annually
trans-1,2-Dichloroethylene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Dichloromethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloropropane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Ethylbenzene	0.56	0.7	mg/l	Semi-Annually	Semi-Annually
Hexachlorobenzene	0.0008	0.001	mg/l	Semi-Annually	Semi-Annually
Hexachlorocyclopentadiene	0.04	0.05	mg/l	Semi-Annually	Semi-Annually
Monochlorobenzene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Styrene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Tetrachloroethylene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Toluene	0.8	1.0	mg/l	Semi-Annually	Semi-Annually
Trihalomethanes (total) ²⁴	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
1,1,1-Trichloroethane	0.16	0.2	mg/l	Semi-Annually	Semi-Annually
1,2,4 - Trichlorobenzene	0.056	0.07	mg/l	Semi-Annually	Semi-Annually
1,1,2 - Trichloroethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Trichloroethylene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Vinyl Chloride	0.0016	0.002	mg/l	Semi-Annually	Semi-Annually
Xylenes (Total)	8.0	10.0	mg/l	Semi-Annually	Semi-Annually

¹⁷ If the Discharge Limit for listed pollutants has not been exceeded in all of four (4) consecutive monitoring events, the owner or operator may apply to the ADEQ Groundwater Section to request a reduction in sampling and reporting frequencies for these pollutants.

¹⁸ Total Trihalomethanes comprises of Bromoform, Bromodichloromethane, Chloroform, and Dibromochloromethane.

4.0 TABLES OF MONITORING REQUIREMENTS

TABLE IB
RECLAIMED WATER MONITORING TABLE - CLASS A+²⁵

Sampling Point Number	Sampling Point Identification		Latitude	Longitude
2	In the filtration yard, at the end of UV disinfection		32° 34' 20" N	111° 20' 19" W
Parameter	DL	Units	Sampling Frequency	Reporting Frequency
Flow: Daily	Reserved	MGD ²⁶	Everyday ²⁷	Quarterly
Flow: Total monthly flow provided for reuse	Reserved	MGD	Monthly Calculation	Quarterly
Total Nitrogen ²⁸ Five-sample rolling geometric mean	10.0	mg/l	Monthly	Quarterly
Fecal Coliform: Single-sample maximum	23	CFU or MPN ²⁹	Daily ³⁰	Quarterly
Fecal Coliform: Four (4) of last seven (7) samples	Non-detect ³¹	CFU or MPN	Daily	Quarterly
Turbidity ³² Single reading	5	NTU ³³	Everyday ³⁴	Quarterly
Turbidity: 24-hour average	2	NTU	Everyday	Quarterly

¹⁹ Reclaimed water monitoring under Table 1B shall be performed anytime reclaimed water is delivered for beneficial use(s) and is in addition to routine discharge monitoring required under Table 1A.

²⁶ Million Gallons per Day

²⁷ Flow rate shall be measured using a continuously recording flow meter.

²⁸ Nitrate N, plus Nitrite N, plus Total Kjeldahl Nitrogen (TKN)

²³ CFU = Colony Forming Units per 100 ml; MPN = Most Probable Number per 100 ml. For CFU, a value of <1 shall be considered to be non-detect. For MPN, a value of <2.2 shall be considered to be non-detect.

²⁴ For fecal coliform, "daily" sampling means every day in which a sample can practicably be obtained and delivered in sufficient time for proper analysis, provided that no less than four (4) samples in each calendar week are obtained and analyzed.

²⁵ If at least four (4) out of the last seven (7) samples are non-detect, report "yes" in the appropriate space on the SMRF (indicating that the standard has been met). If at least four (4) out of the last seven (7) samples have detections of fecal coliform, report "no" in the appropriate space on the SMRF (indicating that the standard has not been met).

²⁶ Turbidity shall be measured with an instrument with a signal averaging time not exceeding 120 seconds. An occasional spike due to back-flushing or instrument malfunction shall not be considered an exceedance. All exceedances must be explained and submitted to the Department with the corresponding quarterly SMRF.

²⁷ Nephelometric Turbidity Units

²⁸ For the single turbidity reading, "everyday" means the maximum reading during the 24-hour period.

4.0 TABLES OF MONITORING REQUIREMENTS**TABLE II
GROUNDWATER MONITORING****NOT REQUIRED IN THIS PERMIT****TABLE III
FACILITY INSPECTION (operational monitoring)**

Pollution Control Structures/Parameter	Performance Levels	Inspection Frequency
Pump Integrity	Good Working Condition	Weekly
Treatment Plant Components	Good Working Condition	Weekly

5.0 REFERENCES AND PERTINENT INFORMATION

The terms and conditions set forth in this permit have been developed based upon the information contained in the following, which are on file with the Department:

- | | |
|-----------------------------------|------------------|
| 1. APP Application dated: | April 13, 2005 |
| 2. Engineering Review Completed: | October 27, 2005 |
| 3. Hydro Review Completed: | January 26, 2005 |
| 3. Public Notice dated: | March 27, 2006 |
| 3. Public Hearing, dated: | N/A |
| 4. Responsiveness Summary, dated: | N/A |

6.0 NOTIFICATION PROVISIONS

6.1 Annual Registration Fees

The permittee is notified of the obligation to pay an Annual Registration Fee to ADEQ. The Annual Registration Fee is based upon the amount of daily influent or discharge of pollutants in gallons per day as established by A.R.S. § 49-242(D).

6.2 Duty to Comply [A.R.S. §§ 49-221 through 263]

The permittee is notified of the obligation to comply with all conditions of this permit and all applicable provisions of Title 49, Chapter 2, Articles 1, 2 and 3 of the Arizona Revised Statutes, Title 18, Chapter 9, Articles 1 through 4, and Title 18, Chapter 11, Article 4 of the Arizona Administrative Code. Any permit non-compliance constitutes a violation and is grounds for an enforcement action pursuant to Title 49, Chapter 2, Article 4 or permit amendment, suspension, or revocation.

6.3 Duty to Provide Information [A.R.S. §§ 49-243(K)(2) and 49-243(K)(8)]

The permittee shall furnish to the Director, or an authorized representative, within a time specified, any information which the Director may request to determine whether cause exists for amending or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

6.4 Compliance with Aquifer Water Quality Standards [A.R.S. §§ 49-243(B)(2) and 49-243(B)(3)]

The permittee shall not cause or contribute to a violation of an aquifer water quality standard at the applicable point of compliance for the facility. Where, at the time of issuance of the permit, an aquifer already exceeds an aquifer water quality standard for a pollutant, the permittee shall not discharge that pollutant so as to further degrade, at the applicable point of compliance for the facility, the water quality of any aquifer for that pollutant.

6.5 Technical and Financial Capability [A.R.S. §§ 49-243(K)(8) and 49-243(N) and A.A.C. R18-9-A202(B) and R18-9-A203(E) and (F)]

The permittee shall have and maintain the technical and financial capability necessary to fully carry out the terms and conditions of this permit. Any bond, insurance policy, trust fund, or other financial assurance mechanism provided as a demonstration of financial capability in the permit application, pursuant to A.A.C. R18-9-A203(D), shall be in effect prior to any discharge authorized by this permit and shall remain in effect for the duration of the permit.

6.6 Reporting of Bankruptcy or Environmental Enforcement [A.A.C. R18-9-A207(C)]

The permittee shall notify the Director within five days after the occurrence of any one of the following:

1. The filing of bankruptcy by the permittee.
2. The entry of any order or judgment not issued by the Director against the permittee for the enforcement of any environmental protection statute or rule.

6.7 Monitoring and Records [A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A206]

The permittee shall conduct any monitoring activity necessary to assure compliance with this permit, with the applicable water quality standards established pursuant to A.R.S. §§ 49-221 and 49-223 and §§ 49-241 through 49-252.

6.8 Inspection and Entry [A.R.S. §§ 49-203(B) and 49-243(K)(8)]

In accordance with A.R.S. §§ 41-1009 and 49-203(B), the permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to enter and inspect the facility as reasonably necessary to ensure compliance with Title 49, Chapter 2, Article 3 of the Arizona Revised Statutes, and Title 18, Chapter 9, Articles 1 through 4 of the Arizona Administrative Code and the terms and conditions of this permit.

6.9 Duty to Modify [A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A211]

The permittee shall apply for and receive a written amendment before deviating from any of the designs or operational practices authorized by this permit.

**6.10 Permit Action: Amendment, Transfer, Suspension & Revocation
[A.R.S. §§ 49-201, 49-241 through 251, A.A.C. R18-9-A211, R18-9-A212 and R18-9-A213]**

This permit may be amended, transferred, renewed, or revoked for cause, under the rules of the Department.

The permittee shall notify the Groundwater Section in writing within 15 days after any change in the owner or operator of the facility. The notification shall state the permit number, the name of the facility, the date of property transfer, and the name, address, and phone number where the new owner or operator can be reached. The operator shall advise the new owner or operators of the terms of this permit and the need for permit transfer in accordance with the rules.

7.0 ADDITIONAL PERMIT CONDITIONS

7.1 Other Information [A.R.S. § 49-243(K)(8)]

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, the permittee shall promptly submit the correct facts or information.

**7.2 Severability
[A.R.S. §§ 49-201, 49-241 through 251, A.A.C. R18-9-A211, R18-9-A212 and R18-9-A213]**

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. The filing of a request by the permittee for a permit action does not stay or suspend the effectiveness of any existing permit condition.

7.3 Permit Transfer

This permit may not be transferred to any other person except after notice to and approval of the transfer by the Department. No transfer shall be approved until the applicant complies with all transfer requirements as specified in A.A.C. R18-9-A212(B) and (C).